

AMENDMENTS TO THE CLAIMS

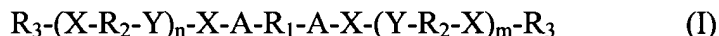
This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

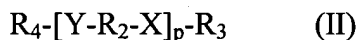
1-21 (Canceled)

22. (New) Abrasion-resistant yarns, fibres and filaments obtained from a composition comprising a polymer matrix, the polymer matrix consisting of a polycondensate composed of:

- 30 to 100 mol% (limits included) of macromolecular chains corresponding to the following formula (I):



- 0 to 70 mol% (limits included) of macromolecular chains corresponding to the following formula (II):



in which:

-X-Y- is a radical resulting from the condensation of two reactive functional groups  $F_1$  and  $F_2$  such that

-  $F_1$  is the precursor of the -X- radical and  $F_2$  is the precursor of the -Y- radical, or vice versa,

- the  $F_1$  functional groups cannot react with one another by condensation,

- the  $F_2$  functional groups cannot react with one another by condensation,

- A is a covalent bond or an aliphatic hydrocarbonaceous radical which can comprise

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heteroatoms and having from 1 to 20 carbon atoms,

- R<sub>2</sub> is a branched or unbranched, aliphatic or aromatic, hydrocarbonaceous radical

having from 2 to 20 carbon atoms,

- R<sub>3</sub> or R<sub>4</sub> represents hydrogen, a hydroxyl radical or a hydrocarbonaceous radical,

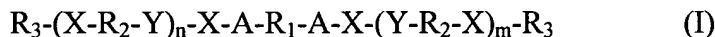
- R<sub>1</sub> is a linear or cyclic, aromatic or aliphatic, hydrocarbonaceous radical having at least 2 carbon atoms and, optionally, heteroatoms, and

- n, m and p each represent a number between 50 and 500.

23. (New) The yarns, fibres and filaments according to Claim 22, wherein the polymer matrix consists of a polyamide A1 composed of:

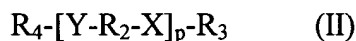
- 30 to 100 mol% (limits included) of macromolecular chains

corresponding to the following formula (I):



- 0 to 70 mol% (limits included) of macromolecular chains

corresponding to the following formula (II):



in which:

- Y is the  $\begin{array}{c} \text{---N---} \\ | \\ R_5 \end{array}$  radical when X represents the  $\begin{array}{c} \text{---C---} \\ || \\ O \end{array}$  radical,

- Y is the  $\begin{array}{c} \text{---C---} \\ || \\ O \end{array}$  radical when X represents the  $\begin{array}{c} \text{---N---} \\ | \\ R_5 \end{array}$  radical,

- A is a covalent bond or an aliphatic hydrocarbonaceous radical having from 1 to 20 carbon atoms, and, optionally, heteroatoms,

- R<sub>2</sub> is a branched or unbranched, aliphatic or aromatic, hydrocarbonaceous radical

having from 2 to 20 carbon atoms,

-  $R_3$  or  $R_4$  represents hydrogen, a hydroxyl radical or a hydrocarbonaceous

radical having a  $\begin{array}{c} \text{---C---} \\ || \\ \text{O} \end{array}$

or  $\begin{array}{c} \text{---N---} \\ | \\ R_5 \end{array}$  group,

-  $R_5$  represents hydrogen or a hydrocarbonaceous radical having from 1 to 6 carbon atoms,

-  $R_1$  is a linear or cyclic, aromatic or aliphatic, hydrocarbonaceous radical having at least 2 carbon atoms and, optionally, heteroatoms, and

- n, m and p each represent a number between 50 and 500.

24. (New) The yarns, fibres and filaments according to Claim 22, wherein the polymer matrix consists of a polyester A2 composed of:

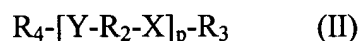
- 30 to 100 mol% (limits included) of macromolecular chains

corresponding to the following formula (I):



- 0 to 70 mol% (limits included) of macromolecular chains

corresponding to the following formula (II):



in which:

- Y is the  $\text{---O---}$  radical when X represents the  $\begin{array}{c} \text{---C---} \\ || \\ \text{O} \end{array}$  radical,

- Y is the  $\begin{array}{c} \text{---C---} \\ || \\ \text{O} \end{array}$  radical when X represents the  $\text{---O---}$  radical,

- A is a covalent bond or an aliphatic hydrocarbonaceous radical having from 1 to 20

carbon atoms, and, optionally, heteroatoms,

- R<sub>2</sub> is a branched or unbranched, aliphatic or aromatic, hydrocarbonaceous radical having from 2 to 20 carbon atoms,

- R<sub>3</sub> or R<sub>4</sub> represents hydrogen, a hydroxyl radical or a hydrocarbonaceous radical having a  $\text{—}\overset{\text{O}}{\underset{\text{||}}{\text{C}}}\text{—}$  or  $\text{—O—}$  group,

- R<sub>1</sub> is a linear or cyclic, aromatic or aliphatic, hydrocarbonaceous radical having at least 2 carbon atoms, and, optionally, heteroatoms, and

- n, m and p each represent a number between 50 and 500.

25 (New) The yarns, fibres and filaments according to Claim 24, wherein n, m and p are between 100 and 300.

26. (New) The yarns, fibres and filaments according to Claim 23, wherein the polyamide A1 or the polyester A2 has at least 45 mol%, preferably at least 60 mol%, of macromolecular chains corresponding to the formula (I).

27. (New) The yarns, fibres and filaments according to Claim 23, wherein the polyamide A1 or the polyester A2 exhibits a number-average molecular mass at least equal to 25 000 g/mol.

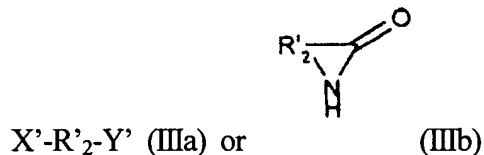
28. (New) The yarns, fibres and filaments according to Claim 22, wherein R<sub>2</sub> is a pentamethylene radical.

29. (New) The yarns, fibres and filaments according to Claim 23, wherein the polyamide A1 or the polyester A2 is obtained by copolymerization from a mixture of monomers comprising:

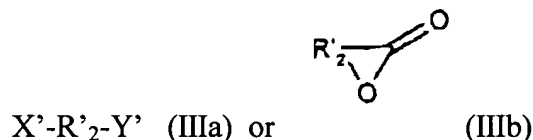
a) a difunctional compound, the reactive functional groups of which are chosen

from amines, carboxylic acids, alcohols, and their derivatives, the reactive functional groups being identical,

b) monomers of following general formulae (IIIa) and (IIIb), in the case of the polyamide A1



b') monomers of following general formulae (IIIa') and (IIIb'), in the case of the polyester A2



in which:

$R'_2$  represents a substituted or unsubstituted, aliphatic, cycloaliphatic or aromatic, hydrocarbonaceous radical having from 2 to 20 carbon atoms and, optionally, heteroatoms,

$Y'$  is an amine radical when  $X'$  represents a carboxyl radical, or  $Y'$  is a carboxyl radical when  $X'$  represents an amine radical, in the case of the polyamide A1, and

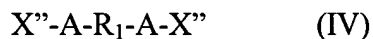
$Y'$  is a hydroxyl radical when  $X'$  represents a carboxyl radical, or  $Y'$  is a carboxyl radical when  $X'$  represents a hydroxyl radical, in the case of the polyester A2.

30. (New) The yarns, fibres and filaments according to Claim 29, wherein the compound a) represents between 0.05 and 1 mol% with respect to the number of moles of monomers of type b) or b').

31. (New) The yarns, fibres and filaments according to Claim 23, wherein the polyamide A1 or the polyester A2 is obtained by melt blending a polyamide of the type of those obtained by polymerization of lactams and/or amino acids or a polyester of the type of those obtained by polymerization of lactones and/or hydroxy acids with a difunctional compound, whose reactive functional groups are amines, alcohols, carboxylic acids or their derivatives, the reactive functional groups being identical.

32. (New) The yarns, fibres and filaments according to Claim 31, wherein the difunctional compound represents between 0.05 and 2% by weight with respect to the weight of polyamide or of polyester.

33. (New) The yarns, fibres and filaments according to Claim 29, wherein the difunctional compound is represented by the formula (IV):



in which X'' represents an amine radical, a hydroxyl radical, a carboxyl group or their derivatives.

34. (New) The yarns, fibres and filaments according to Claim 29, wherein the difunctional compound is adipic acid, decanedioic acid, sebacic acid, dodecanedioic acid, terephthalic acid, isophthalic acid, hexamethylenediamine, methylpentamethylenediamine, 4,4'-diaminodicyclohexylmethane, butanediamine, metaxylylenediamine, 1,3-propanediol, 1,2-ethanediol, 1,4-butanediol, 1,5-pentanediol, 1,6-hexanediol or polytetrahydrofuran.

35. (New) The yarns, fibres and filaments according to Claim 23, wherein the polyamide A1 or the polyester A2 is obtained by melt blending a polyamide obtained

by polymerization of lactams and/or amino acids or a polyester obtained by  
polymerization of lactones and/or hydroxy acids with a compound of formula (V)



in which

R is substituted or unsubstituted, linear or cyclic, aromatic or aliphatic, hydrocarbonaceous radical, optionally having heteroatoms, and

G is a functional group or a radical which can selectively react either with the amine reactive functional groups or with alcohol reactive functional groups or with the carboxylic acid reactive functional groups of the polyamide or of the polyester, to form covalent bonds.

36. (New) The yarns, fibres and filaments according to Claim 35, wherein the compound of formula (V) represents between 0.05 and 2% by weight with respect to the weight of polyamide or of polyester.
37. (New) An article comprising yarns, fibres and/or filaments as defined in Claim 22.
38. (New) The article according to Claim 37, being a felt for a paper-making machine.
39. (New) The article according to Claim 37, being a carpet, or a fitted carpet.
40. (New) The article according to Claim 37, being a rope or a belt.
41. (New) The article according to Claim 37, being a fabric for print transfer or for filtration.
42. (New) The article according to Claim 37, being a net.